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Cooperative ECONOMIC INSECT REPORT

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Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearing house and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

GREENBUG increasing in wheat in Scotts Bluff and Banner Counties, Nebraska, and in western Oklahoma; economic in Motley and Karnes Counties, Texas. (p. 1083).

BEE T ARMYWORM and WESTERN FLOWER THRIPS heavy in alfalfa in Imperial County, California. (p. 1084).

CABBAGE LOOPER continues main problem on lettuce in southern Arizona. (p. 1085).

WESTERN PINE BEETLE destroying pine in Sierra National Forest and CALIFORNIA OAKWORM defoliation heavy in 1,000-acre oak stand in San Diego County, California. (p. 1087).

WINTER TICK very heavy on cattle in Canadian County, Oklahoma. (p. 1088).

Detection

New State records include a GELECHIID MOTH and an APHID in Maryland. (p. 1087).

For new county and island records see page 1091.

Reports in this issue are for week ending November 22 unless otherwise indicated.

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WEATHER OF THE WEEK ENDING NOVEMBER 25

HIGHLIGHTS: Temperatures ranged widely. Mild weather predominated over the northern Great Plains. Freezing temperatures occurred in northern Florida. Light to moderate precipitation fell in the East. Much of the West received no rain.

PRECIPITATION: Rain fell along the northern Pacific coast and snow in the Cascades on several days during the week. Widespread precipitation also occurred early in the week in the eastern half of the United States -- snow flurries from the Dakotas to northern New England and southward to the southern Appalachians and rain along the Atlantic coast from southern New England to Florida. Skies cleared after midweek and after a day or so with only light scattered precipitation, snow began falling in the western mountains. A cold front produced showers from northeastern Texas to the Ohio River Valley on Saturday and from southern Louisiana to New England on Sunday. At week's end a frontal system is producing snow from the central Rockies to the northern Great Plains.

TEMPERATURE: A frigid blast of Canadian air overspread the vast region from the Rocky Mountains to the Atlantic Ocean. By Wednesday morning the cold had penetrated the Deep South and New Orleans, Louisiana, registered 30°. On Thursday morning, Richmond, Virginia, and Raleigh, North Carolina, registered 20° and 18°, respectively. As the cold air moved southeastward to the gulf and the Atlantic Ocean a warming trend began in the West. By Wednesday afternoon, temperatures along the eastern slope of the Rockies had climbed into the 60's. Havre, Montana, warmed to 65° on Wednesday -- 10° warmer than Tampa, Florida. The East warmed late in the week with afternoon readings in the 60's as far north as New York City by Sunday. Colder air was invading mid-America, however, and afternoon temperatures on Sunday were generally in the 40's over the northern Great Plains and the 50's from the central Great Plains to the Ohio River Valley. (Summary supplied by Environmental Data Service, ESSA.)

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

BEET LEAFHOPPER (Circulifer tenellus) - CALIFORNIA - Averaged one per 20 sweeps in sugarbeets in Imperial Valley, Imperial County; only occasional curly top damage in most fields. Averaged 3 per sweep on saltbush in Imperial County and Coachella Valley, Riverside County. Infestations scattered in Burrell area, Fresno County; no treatments required on roadside hosts. Remains heavy, 20-30 per sweep, in portions of Kern County; controls still necessary. Treated 964 acres and 394 miles of roadside hosts in Fresno, Kings, and Kern Counties past week. (Cal. Coop. Rpt.).

CORN LEAF APHID (Rhopalosiphum maidis) - ARIZONA - This species, Heterococcus spp. (mealybugs), and Aleurocybotus occiduus (a whitefly) heavy on experimental broom corn at Yuma, Yuma County. Destroyed experimental plot of Johnson grass in same area. (Ariz. Coop. Sur.). NEW MEXICO - R. maidis light on winter grain in Luna and Hidalgo Counties. (Campbell).

GREENBUG (Schizaphis graminum) - NEBRASKA - Increased in wheat in southern Scotts Bluff and Banner Counties. Some fields yellowing; controls being applied. (Hagen). ARKANSAS - Decreased in small grain in northwest area; survey negative November 16-22. (Boyer). OKLAHOMA - Increasing in wheat in southwest, northwest, and panhandle areas November 16-17; 80 percent of population killed due to low temperature in Crescent area, Logan County. Currently ranged 1-18 per linear foot in wheat in Logan, Oklahoma, Cotton, Tillman, and Payne Counties. (Okla. Coop. Sur.). TEXAS - Damaging small grains in Motley County; some controls in progress. Destroyed some wheat in western Karnes County. Very light, less than 1 per row foot, on wheat and oats near Eagle Pass, Maverick County. (McNally et al.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - MISSISSIPPI - Adults and nymphs light, 7 per 50 sweeps, on Oktibbeha County alfalfa November 9-15. Averaged 20 per 50 sweeps on alfalfa in same county November 16-22. (Dinkins). ARKANSAS - Decreased in northwest alfalfa area due probably to subfreezing temperatures. Only occasional aphid noted. (Boyer). OKLAHOMA - Ranged 10-160 per square foot in alfalfa in Logan, Oklahoma, and Payne Counties. (Okla. Coop. Sur.). ARIZONA - Ranged 150-450 per 100 sweeps in alfalfa at Yuma, Yuma County. These fields infested in past years. (Ariz. Coop. Sur.).

CORN, SORGHUM, SUGARCANE

SOUTHWESTERN CORN BORER (Diatraea grandiosella) - ALABAMA - Larvae very light in corn stubble in 2 late fields near Independence, Autauga County. These fields about 12-15 miles east of first infestations in Autauga County in 1967. (Rainwater et al.). NEW MEXICO - Larvae generally light in all corn checked in Dona Ana, Luna, Hidalgo, Sierra, and Otero Counties. (Elson, Campbell).

EUROPEAN CORN BORER (Ostrinia nubilalis) - ALABAMA - Overwintering larvae very light in most of 10 cornfields examined near Independence, Autauga County, and near Clanton, Chilton County. Several hundred larvae collected in small cornfield in Autauga County. (Rainwater et al.).

SMALL GRAINS

ENGLISH GRAIN APHID (Macrosiphum avenae) - MISSISSIPPI - Adults and nymphs light to moderate, 20-30 per 50 sweeps, on winter wheat in Clay and Oktibbeha Counties. (Dinkins, Nov. 15). ARKANSAS - Only occasional aphid found in small grain in State. (Boyer).

TURF, PASTURES, RANGELAND

GRANULATE CUTWORM (Feltia subterranea) - CALIFORNIA - Medium to heavy in lawns at Gilroy, Santa Clara County. Warm weather and moisture favored continuation of infestation this season. (Cal. Coop. Rpt.).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - Heavy numbers overwintering in ditch banks next to Bermuda grass seed fields at Yuma, Yuma County. (Ariz. Coop. Sur.).

FORAGE LEGUMES

PEA APHID (Acyrtosiphon pisum) - MARYLAND - Averaged 100+ per sweep in 20 acres of alfalfa near Rhodesdale, Dorchester County. (U. Md., Ent. Dept.). ARKANSAS - Decreased in alfalfa and vetch in northwest area. Ranged 5-6 per square foot in vetch, but only occasional aphid noted in alfalfa. (Boyer). OKLAHOMA - Remains light in most of State. Ranged 8-12 per 10 sweeps in alfalfa in Jefferson County and 0-10 per square-foot in Payne, Logan, and Oklahoma Counties. (Okla. Coop. Sur.). TEXAS - Large numbers damaged Motley County alfalfa. (Pallmeyer). NEW MEXICO - Light in alfalfa in Dona Ana, Luna, Hidalgo, and Sierra Counties. (Campbell).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - MISSISSIPPI - Adults light, 5 per 50 sweeps, on Oktibbeha County alfalfa November 9-15. Adults 8 per 50 sweeps in alfalfa in same county November 16-22. (Dinkins). ARIZONA - Counts per 100 sweeps in alfalfa averaged 300 at Yuma, Yuma County, and 200 at Casa Grande, Pinal County. (Ariz. Coop. Sur.).

LYGUS BUGS (Lygus spp.) - ARIZONA - Decreased; adults averaged 125 and nymphs 80 per 100 sweeps in alfalfa in Pinal County. Counts per 100 sweeps in alfalfa averaged 120 at Cochise, Cochise County, and 400 at Yuma, Yuma County. (Ariz. Coop. Sur.). MISSISSIPPI - L. lineolaris adults 10 per 50 sweeps in Oktibbeha County alfalfa. (Dinkins, Nov. 15).

BEET ARMYWORM (Spodoptera exigua) - ARIZONA - Averaged 300 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.). CALIFORNIA - This species and Frankliniella occidentalis (western flower thrips) heavy in 275 acres of alfalfa at Holtville, Imperial County. (Cal. Coop. Rpt.).

YELLOW-STRIPED ARMYWORM (Prodenia ornithogalli) - ARIZONA - Averaged 150 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Larvae 300 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - Averaged 200 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

ALFALFA WEEVIL (Hypera postica) - OREGON - Adults 4 per 100 sweeps in alfalfa field near Lincoln, Polk County. (Westcott).

CLOVER LEAF WEEVIL (Hypera punctata) - OREGON - Adults active in alfalfa field near Lincoln, Polk County. (Westcott).

WEEVILS (Sitona spp.) - OREGON - S. hispidulus, S. cylindricollis, and S. lineatus adults active in alfalfa field near Lincoln, Polk County. (Westcott).

SUGARBEETS

GREEN PEACH APHID (Myzus persicae) - ARIZONA - Adults averaged 5 per plant in Pinal County. (Ariz. Coop. Sur.).

BET ARMYWORM (Spodoptera exigua) - ARIZONA - Larvae averaged 3 per plant at Casa Grande, Pinal County. (Ariz. Coop. Sur.).

COLE CROPS

CABBAGE APHID (Brevicoryne brassicae) - ALABAMA - Light to medium in collard gardens in Autauga, Chilton, Elmore, and Lee Counties; some aphids on almost every plant. Increasing on numerous plants; several hundred in "patches" found on more tender leaves. Predators and parasites less active during past 10 days of cold weather; some braconids noted. (McQueen). MARYLAND - Light on 20 acres of kale near Vienna, Dorchester County. (U. Md., Ent. Dept.).

GREEN PEACH APHID (Myzus persicae) - MARYLAND - Heavy on large garden planting of turnips at College Park, Prince Georges County. (U. Md., Ent. Dept.).

DIAMONDBACK MOTH (Plutella xylostella) - ALABAMA - All instars very heavy on one acre of collards in northern Autauga County; destroyed 25-50 percent of leaves. Larval feeding continues heavy within terminal buds in spite of controls. Egg laying continues despite freezing temperatures on some days. Adults averaged about 1-2 per row foot. (McQueen).

GENERAL VEGETABLES

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Continues main problem in lettuce in Pima, Pinal, Maricopa, and Yuma Counties; control difficult. (Ariz. Coop. Sur.).

GREEN PEACH APHID (Myzus persicae) - MARYLAND - Light but increasing on 400 acres of spinach and 100 acres of beets near Vienna, Dorchester County. (U. Md., Ent. Dept.). ARIZONA - A few colonies observed in lettuce at Yuma, Yuma County; no problem yet. (Ariz. Coop. Sur.).

LYGUS BUGS (Lygus spp.) - ARIZONA - Adults damaged some lettuce at Yuma, Yuma County. (Ariz. Coop. Sur.).

GREENHOUSE SLUG (Milax gagates) - CALIFORNIA - Medium in commercial lettuce plantings at Brentwood, Contra Costa County; leaf damage noted. (Cal. Coop. Rpt.).

DECIDUOUS FRUITS AND NUTS

PECAN WEEVIL (Curculio caryae) - ALABAMA - Larval damage to pecans more evident as harvest continues in several orchards in Covington and Bibb Counties. (Odom, Linder).

A SCARAB (Pleocoma crinita) - OREGON - Recent rains produced peak emergence in pear orchard at Hood River, Hood River County. Many males but few females found crawling on ground. (Peifer).

WOOLLY APPLE APHID (Eriosoma lanigerum) - MARYLAND - Light to moderate on apple trees at Hancock, Washington County. Found on shoots of apple tree at Fairland, Prince Georges County; parasitism about 25 percent. (U. Md., Ent. Dept.).

CITRUS

Citrus Insect Situation in Florida - Mid-November - CITRUS RUST MITE (Phyllocoptruta oleivora) infested leaves in 68 percent of groves (norm 69 percent); 43 percent economic (norm 53 percent). Infested fruit in 79 percent of groves (norm 72 percent); 58 percent economic (norm 54 percent). In high range on leaves and fruit. Fruit infestation above normal for November; leaf infestation slightly below. Slight increase expected. Highest districts west, south, and north. TEXAS CITRUS MITE (Eutetranychus banksi) infested 19 percent of groves (norm 27 percent); 4 percent economic (norm 11 percent). Below normal and in low range. Slight increase underway but very few heavy infestations expected. Highest district central. CITRUS RED MITE (Panonychus citri) infested 22 percent of groves (norm 34 percent); 4 percent economic (norm 9 percent). Below normal and in low range. At lowest November level in 17 years of record. Slight decrease expected. Highest district east. GLOVER SCALE (Lepidosaphes gloverii) infested 50 percent of groves (norm 69 percent); 3 percent economic (norm 14 percent). At lowest November level since 1961. Will remain below normal and in low range. Decrease expected. Highest districts west and east. PURPLE SCALE (L. beckii) infested 37 percent of groves (norm 65 percent); less than 1 percent economic (norm 5 percent). Increased from 17-year-record low of September 1968 but still lowest on record for November. Will be low and unimportant despite further expected increase. Highest district east. YELLOW SCALE (Aonidiella citrina) infested 44 percent of groves (norm 58 percent); less than 1 percent economic (norm 10 percent). Continued below normal and in low range. Decrease expected. Highest district east. BLACK SCALE (Saissetia oleae) infested 34 percent of groves (norm 32 percent); 10 percent economic (norm 10 percent). Will remain at current low level normal for November. Highest districts central and east. An ARMORED SCALE (Unaspis citri) infested 14 percent of groves; moderate or heavy in 2 percent. Slight increase expected in infested groves. WHITEFLIES expected to remain below normal and in moderate range. (W.A. Simanton (Citrus Expt. Sta., Lake Alfred)).

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Controls applied in nurseries at Yuma, Yuma County. (Ariz. Coop. Sur.).

COWPEA APHID (Aphis craccivora) - ARIZONA - Infested terminals at Yuma, Yuma County; no controls applied. (Ariz. Coop. Sur.).

CITRUS RED MITE (Panonychus citri) - ARIZONA - Increase begun in most groves at Yuma, Yuma County; cooler weather expected to control populations without treatment. (Ariz. Coop. Sur.).

OTHER TROP. & SUBTROP. FRUITS

OLIVE SCALE (Parlatoria oleae) - CALIFORNIA - Heavy in olive trees at Biggs, Butte County. (Cal. Coop. Rpt.).

SMALL FRUITS

RASPBERRY CROWN BORER (Bembecia marginata) - CALIFORNIA - Larvae heavy in nectar and blackberry canes at Crannell, Humboldt County. (Cal. Coop. Rpt.).

ORNAMENTALS

A GELECHIID MOTH (Coleotechnites thujaella) - MARYLAND - Heavily damaged a planting of arborvitae at Easton, Talbot County. Collected by C.W. McComb June 4, 1968. Determined by R.W. Hodges. This is a new State record. (U. Md., Ent. Dept.).

A WALSHIID MOTH (Periploca nigra) - CALIFORNIA - Light on juniper at Fresno, Fresno County, and medium at Redding area, Shasta County. These are new county records. (Cal. Coop. Rpt.).

AN APHID (Euceraphis mucida) - MARYLAND - One specimen found at Monkton, Baltimore County. Collected by C.W. McComb October 4, 1965. Determined by F.W. Quednau. This is a new State record. (U. Md., Ent. Dept.).

AN ARMORED SCALE (Phenacaspis cockerelli) - FLORIDA - All stages severe on all 3 Chinese fanpalm (Livistona chinensis) in nursery at Keystone Heights, Clay County. (Collins, Oct. 28). This is a new Florida Department of Plant Industry host record. (Fla. Coop. Sur.).

FLORIDA RED SCALE (Chrysomphalus aonidum) - FLORIDA - All stages severely infesting 50 philodendrons in nursery at Lockhard, Orange County. (Musgrove, Sept. 13). This is a new Florida Department of Plant Industry host record. (Fla. Coop. Sur.).

WHITE PEACH SCALE (Pseudaulacaspis pentagona) - FLORIDA - Adults on Tetrapanax papyriferus in nursery at Crescent City, Putnam County. (Graham, Sept. 19). This is a new Florida Department of Plant Industry host record. (Fla. Coop. Sur.).

BULB MITE (Rhizoglyphus echinopus) - CALIFORNIA - Eggs, nymphs, and adults heavy on tulip bulbs in nursery at Auburn, Placer County. (Cal. Coop. Rpt.).

FOREST AND SHADE TREES

WESTERN PINE BEETLE (Dendroctonus brevicomis) - CALIFORNIA - Still active in ponderosa pine stands in high value recreational areas at Bass Lake area, Sierra National Forest. Damaging poles and young timber. Killed 70+ trees in 5 acres. (Downey, USFS). Killed 30+ ponderosa and sugar pines in 0.5-acre stand on adjacent private land at Grizzly Flats area, El Dorado County. Winter storm damage and road construction work apparent cause of outbreak. (Veirs, Gustafson, USFS).

PINE WEBWORM (Tetralopha robustella) - FLORIDA - Larvae scattered on 10,000 of 1,000,000 young slash pines at Brooker, Bradford County. (Collins et al., Oct. 29).

CALIFORNIA OAKWORM (Phryganidia californica) - CALIFORNIA - Defoliation heavy on crowns of oak trees in 1,000-acre stand on Rincon Grade, San Diego County. (Swain, Boozer, USFS).

BRONZE BIRCH BORER (Agrilus anxius) - MINNESOTA - Survey in progress last 2 weeks. Generally counts in nursery-grown birch trees remain about same as last year. Infested average of 2 percent of trees. State average increased by infestations up to 10 percent in isolated fields. (Minn. Ins. Rpt.).

CERAMBYCID BEETLES - TEXAS - Oncideres pustulatus caused much damage to mimosa trees at Houston, Harris County. (Young, Kay). Many Megacyllene robiniae adults on mesquite trees in Throckmorton County. (Lindsey, Boring).

GIANT BARK APHID (Longistigma caryae) - OKLAHOMA - Heavy on scattered post oak and blackjack oak trees in Oklahoma County. Ranged up to several hundred per cluster on small branches. (Okla. Coop. Sur.).

EUROPEAN ELM SCALE (Gossyparia spuria) - NEW MEXICO - Heavy on American elm at Santa Fe, Santa Fe County. (Heninger).

MAN AND ANIMALS

MOSQUITOES - CALIFORNIA - Problem increased rapidly past week; adult swarms very evident. Recent rains and moderate temperatures apparently triggered these last flights. Heavier than normal this past summer, particularly in rice-growing areas of Sacramento Valley. (Cal. Coop. Rpt.). TEXAS - Culex pipiens quinquefasciatus present throughout Jefferson County; apparently increased with cooler temperatures. C. salinarius dominant in Pleasure Island and Port Arthur areas. High of 500 per trap night on October 7. Aedes sollicitans numerous last 10 days of October. A. vexans in all traps. Psorophora ciliata only in Port Arthur area. Mansonia perturbans taken throughout first half of October; majority from Pleasure Island area. Uranotaenia sp. still common; U. lowii and U. sapphirina in about equal numbers. Anopheles crucians very numerous; high of 54 in one trap night on Pleasure Island. Several specimens from north Beaumont. A. quadrimaculatus in Pleasure Island and north Beaumont traps. (Jefferson County Mosq. Cont. Dist., Oct. Rpt.).

SCREW-WORM (Cochliomyia hominivorax) - Total of 150 cases reported in U.S. November 17-23 as follows: TEXAS - Atascosa 12, Bandera 2, Bee 5, Bexar 1, Brooks 6, Calhoun 1, De Witt 2, Dickens 1, Dimmit 8, Duval 4, Frio 11, Goliad 1, Guadalupe 2, Hidalgo 7, Hudspeth 1, Jeff Davis 1, Jim Hogg 2, Jim Wells 8, Karnes 3, Kenedy 1, Kinney 6, Kleberg 1, La Salle 3, Live Oak 1, Maverick 3, Medina 5, McMullen 1, Nueces 2, Pecos 1, Presidio 1, Real 1, Refugio 2, Starr 3, Uvalde 3, Val Verde 3, Webb 11, Willacy 1, Wilson 10, Zapata 3, Zavala 4; ARIZONA - Graham 1, Maricopa 3; CALIFORNIA - San Luis Obispo 2. Total of 377 cases reported in portion of Barrier Zone in Republic of Mexico as follows: Baja California 3, Territorio sur de Baja California 110, Sonora 103, Chihuahua 38, Coahuila 74, Nuevo Leon 23, Tamaulipas 26. Total of 16 cases reported in Mexico south of Barrier Zone. Barrier Zone is area where eradication operation underway to prevent establishment of self-sustaining population in U.S. Sterile screw-worm flies released: Texas 62,914,000; Arizona 6,300,000; California 1,800,000; Mexico 99,474,000. (Anim. Health Div.).

STABLE FLY (Stomoxys calcitrans) - OKLAHOMA - Ranged 5-6 per head on cattle checked in Payne and Noble Counties. (Okla. Coop. Sur.).

HORN FLY (Haematobia irritans) - MISSISSIPPI - Very light on Oktibbeha County cattle; adults about 4-5 per head. (Combs).

CATTLE LICE - IOWA - No large increase noted during survey of several central area cattle. (Iowa Ins. Sur.). MISSISSIPPI - Linognathus vituli moderate on Oktibbeha County cattle. (Combs).

HOG LOUSE (Haematopinus suis) - MISSISSIPPI - Heavy on hogs at Clay County sale barn. (Combs).

WINTER TICK (Dermacentor albipictus) - OKLAHOMA - Very heavy on cattle at Ft. Reno area, Canadian County. (Okla. Coop. Sur.).

NORTHERN FOWL MITE (Ornithonyssus sylviarum) - NEW MEXICO - Heavy at poultry farm at Las Cruces area, Dona Ana County. (Durkin).

BROWN RECLUSE SPIDER (Loxosceles reclusa) - IOWA - Negative at one area of Des Moines, Polk County. (Iowa Ins. Sur.).

STORED PRODUCTS

FLAT GRAIN BEETLE (Cryptolestes pusillus) - FLORIDA - Adults infesting large quantities of Argentine Bahia grass seed (Paspalum notatum var. saurae) in seed warehouses at Orlando, Orange County; Bartow, Polk County; and Dade City, Hernando County. Determined by J. Strayer. Seeds fumigated and dusted with insecticide. Fumigation included railroad boxcar of seed. (Fla. Coop. Sur., Nov. 5).

BENEFICIAL INSECTS

CONVERGENT LADY BEETLE (Hippodamia convergens) - ALABAMA - Adults 1-2 per corn-stalk on about 5-10 percent of stalks examined in 2 Autauga County fields. Numerous and feeding on aphids on pine and on scales on oak in Lee County. (McQueen).

AN ICHNEUMON WASP (Melanichneumon brevicinctor) - WISCONSIN - Remains active; specimens from as far north as La Crosse and Sturgeon Bay reared from Manduca spp. (hornworms). (Wis. Ins. Sur.).

HYMENOPTEROUS PARASITES - ARKANSAS - Only these beneficial insects in northwest area. Light, 5-10 per 100 sweeps, in cereal and forage crops. (Boyer).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

A SEED CHALCID (Megastigmus pistaciae) - CALIFORNIA - Negative during inspections and in stickyboard traps in Butte, Stanislaus, and Tulare Counties during October. (PPC West. Reg.).

BOLL WEEVIL (Anthonomus grandis) - TEXAS - Additional traps installed in El Paso area. All traps in Presidio removed. Two infestations found; all other inspections negative for area. Two applications applied to 20 infested acres at El Paso. In High Plains area, field surveys continued in conjunction with control program; acreage with low populations removed from treatment schedule. Some slight spread to west in Dawson County; very heavy at one location in Borden County. Treatments in control zone completed October 29 on 207,126 aggregate acres in Units I and II and October 26 on 99,696 aggregate acres in Unit IV. One application applied to about 1,750 acres in Borden County, below the Caprock. (PPC South. Reg.).

CITRUS BLACKFLY (Aleurocanthus woglumi) - TEXAS - Inspections negative in Bee, Cameron, Hidalgo, and Zapata Counties. (PPC South. Reg., Oct. Rpt.).

GOLDEN NEMATODE (Heterodera rostochiensis) - WEST VIRGINIA - Collected 101 soil samples from 75 acres of potato fields in Nicholas County; 25 more acres to be sampled. VIRGINIA - Collected and processed 1,264 samples from 24 properties on Eastern Shore to date; results negative. DELAWARE - Survey began October 14 in northern area; collected 1,518 samples from 1,149 acres by end of October. NEW JERSEY - Soil sampling completed; collected 1,832 samples from 4,312 acres. Of these, 434 samples were from 3 farms known to have used seed from Steuben County, New York. PENNSYLVANIA - By end of October, collected 334 samples from about 1,606 acres in Crawford and Erie Counties and 348 samples from about 1,740 acres in Potter County. NEW YORK - Survey of upstate tablestock potato land continues; collected 22,102 samples from 15,518 acres; processing of postfumigation samples begun. On Long Island 21,798 samples collected from 9,323 acres; processing of postfumigation samples completed; one viable cyst recovered; survey of exposed fields will be completed first week of November. To date, 3 fields infested; 2 of 3 recovered cysts viable. RHODE ISLAND - Sampling completed; processing underway. MASSACHUSETTS - Processing of 212 samples from 1,839 acres completed October 16; results negative. MAINE - Collected 5,000 samples from about 25,000 acres on 4 farms in Aroostook County;

farms had received seed stock for 1967 season from infested farms in Steuben County, New York. (PPC East. Reg.).

GYPSY MOTH (Porthetria dispar) - NEW JERSEY - Intensive egg mass scouting of positive trap sites begun in southern area. Found 5 egg masses at 2 Cape May County locations; had not been confirmed during preliminary scouting. Infested 10 acres in Evesham Township, Burlington County; all traps within 3 miles negative this year. (PPC East. Reg., Oct. Rpt.).

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - NORTH CAROLINA - Aerial treatment of 35,570 acres completed in Carteret, Craven, Columbus, and Onslow Counties. All known infested areas now treated in these counties. SOUTH CAROLINA - Several extensions noted during survey of Dillon, Lexington, Horry, and Richland Counties. First application to 55,000 acres completed October 29 in Clarendon County. FLORIDA - Small extensions found outside treatment blocks in Polk and Osceola Counties in Tampa area, in Volusia and Seminole Counties in Orlando area, and in Desoto, Highlands, Charlotte, Marion, and Baker Counties. Aerially treated 57,000 acres in Calhoun, Jackson, Gadsden, Liberty, and Washington Counties. Treated 276,551 acres (2 blocks) in Tampa eradication area during October. ALABAMA - Infested new areas in Cullman and Marshall Counties; significant extensions noted in Blount, Cleburne, Randolph, St. Clair, and Walker Counties. Initially treated 8,797 acres in 9 counties. MISSISSIPPI - Mounds found in treated areas of Lee, Monroe, Covington, and Jefferson Davis Counties. Treatment completed November 1 on 409,600-acre test block in Clay, Lowndes, and Oktibbeha Counties. TEXAS - Fourth application made to about 37,662 acres in Gregg County, the second to 5,000 acres in Harrison County, and the first to another area in Harrison County. (PPC South. Reg.).

JAPANESE BEETLE (Popillia japonica) - MICHIGAN - Aerial treatment of 4,225 acres and ground treatment of about 300-400 acres completed October 25 in Berrien County. (PPC Cent. Reg.).

MEXICAN FRUIT FLY (Anastrepha ludens) - TEXAS - More than 1,700 traps placed in 14 southern counties in October; about 6,000 traps serviced. Female trapped October 10 near McAllen affected about 475 acres of citrus. This is earliest catch since 1949-50 season. (PPC South. Reg.). CALIFORNIA - Sterile adults trapped for 19 consecutive weeks. Collected 25 past week at San Ysidro and National City, San Diego County; total for season is 334 at 62 trap locations. (Cal. Coop. Rpt.).

PINK BOLLWORM (Pectinophora gossypiella) - LOUISIANA - Moths recovered from sex lure traps in regulated areas of Avoyelles, Caddo, Grant, Natchitoches, Rapides, and Red River Parishes. Two larvae recovered in lint cleaner in Caddo Parish. ARKANSAS - About 350 sex lure traps operated during October; 2 moths taken in Miller County. One larva collected in gin trash in Cleburne County. Negative during lint cleaner inspections in State. TEXAS - Several initial infestations for this season in various areas of State. Still no heavily infested areas. Six moths taken in sex lure traps in Harrison County. OKLAHOMA - Larvae recovered during lint cleaner inspections in Bryan, Cotton, Love, Marshall, and Tillman Counties. (PPC South. Reg.). Less numerous than in 1967 in lint cleaners in Cotton, Tillman, and Jefferson Counties. (Okla. Coop. Sur.). ARIZONA - Increased 30 percent in lint cleaners at Yuma, Yuma County; larvae 30-40 per lint cleaner. (Ariz. Coop. Sur.). CALIFORNIA - Second baiting of sex lure traps with hexalure completed north of Kern County and continuing in Kern County. (PPC West. Reg., Oct. Rpt.). No wild moths taken in Bakersfield area in 1968; 8.5+ million sterile moths released to date. (Cal. Coop. Rpt.).

SWEETPOTATO WEEVIL (Cylas formicarius elegantulus) - LOUISIANA - Infested small areas at Gilbert and Waynesboro, Franklin Parish; at Oakdale, Allen Parish; and at 2 locations in Sabine Parish. Collected 2,142 weevils in uncoated trap and 198 in trap coated with stickem during October (9 nights) in St. Landry Parish.

ALABAMA - Infested new properties in 6 counties during October. GEORGIA - Infested 2 new properties at Albany, Dougherty County. New infestation found in southern Grady County; collected 145 weevils in 2 traps during October in this county. (PPC South.Reg.).

TOBACCO CYST NEMATODE (Heterodera tabacum) - MASSACHUSETTS - Processing of 262 soil samples from 203 acres of shade tobacco completed October 15. Determined by I. Granek. Infested 7 out of 31 fields surveyed. Controls to be applied. (PPC East. Reg.).

WHITE-FRINGED BEETLES (Graphognathus spp.) - GEORGIA - Extensions found in Ben Hill, Wheeler, and Wilcox Counties. ALABAMA - Additional 4,200 acres infested during delimiting survey of known infested areas in 19 counties. TENNESSEE - New infestations found at Atwood, Carroll County; at Taft, Lincoln County; and at Waynesboro, Wayne County. Extensions noted in Bradley, Davidson, and Wayne Counties. (PPC South.Reg., Oct. Rpt.). VIRGINIA - Additional adult finds at independent cities of Newport News and Virginia Beach in October. (PPC East. Reg.). G. leucoloma striatus adults light on wild aster near Williamsburg in James City and York Counties November 7 and in the independent city of Williamsburg November 15. Determined by R.E. Warner. These are new county records. (PPC).

WOOLLY WHITEFLY (Aleurothrixus floccosus) - CALIFORNIA - Amitus sp. (a platygasterid wasp) and Eretmocerus sp. (a eulophid wasp) now established at Sunnyside area, San Diego County, where liberated in 1967. Colonies of A. floccosus difficult to find in this untreated area; may indicate parasitism effectively suppressing population. No recoveries in other parts of infested area where Amitus sp. and Eretmocerus sp. released. Added 21 A. floccosus infested blocks to known infested area out of 33 inspected during delimiting survey. Infestations still light in 10 out of 11 previously treated blocks. More infested properties noted during third posttreatment inspection of 50 randomly selected blocks. (Cal. Coop. Rpt.).

INSECT DETECTION

New State Records

A GELECHIID MOTH (Coleotechnites thujaella) - MARYLAND - On arborvitae at Easton, Talbot County. Collected by C.W. McComb June 4, 1968. Determined by R.W. Hodges. (p. 1087).

AN APHID (Euceraphis mucida) - MARYLAND - Found at Monkton, Baltimore County. Collected by C.W. McComb October 4, 1965. Determined by F.W. Quednau. (p. 1087).

New County and Island Records

A WALSHIID MOTH (Periploca nigra) - CALIFORNIA - Fresno and Shasta Counties. (p. 1087).

A WHITE-FRINGED BEETLE (Graphognathus leucoloma striatus) - VIRGINIA - James City and York Counties, and City of Williamsburg. (p. 1091).

BEAN FLY (Melanagromyza phaseoli) - HAWAII - Hawaii Island. (p. 1092).

HAWAII INSECT REPORT

General Vegetables - BEAN FLY (*Melanagromyza phaseoli*) found on snap beans on Hawaii Island for a new island record. Larvae and pupae heavy on dying seedlings at Kohala and older plantings at Pepeekeo. All stages heavy in small backyard snap bean plantings at Pukalani, Maui. Generally light in all commercial snap and yard-long beans on Oahu. (Nakano et al.). CABBAGE LOOPER (*Trichoplusia ni*) eggs and larvae heavy on lettuce in Pulehu, Maui, at 2,100 feet elevation. Damage heavy on lettuce starting to head. (Hori, Miyahira). Adults of LEAF MINER FLIES (*Liriomyza* spp.) heavy in snap bean field at Pulehu, Maui; in cucumbers and snap beans at Hanalei, Kauai; and in yard-long and snap beans at Waianae and Waimanalo, Oahu. Larval mines trace to light in all areas. (Miyahira et al.).

Fruit Trees - RED-BANDED THRIPS (*Selenothrips rubrocinctus*) nymphs and adults heavy on foliage of backyard mango trees at Lahaina and Wailuku, Maui. (Ah Sam).

Coffee - A BARK BEETLE (*Xylosandrus compactus*) widespread in wild coffee plants at Wailuku (Iao Valley), Maui, at 400 feet elevation. Numerous larvae, pupae, adults, and exit holes in twigs and branches. (Miyahira, Ah Sam).

Ornamentals - PACIFIC BEETLE COCKROACH (*Diploptera punctata*) nymphs and adults heavy on many spider lily plants at Sunset Beach, Oahu; congregating in terminal leaves. (Funasaki).

Beneficial Insects - SMALLER LANTANA BUTTERFLY (*Strymon bazochii gundlachianus*) adults numerous in dense growths of lantana (1.5 acres) at Laie Point, Oahu. (Suzukawa).

Miscellaneous Insects - Nymphs and adults of a RHOPALID BUG (*Jadera haematoloma*) continue to increase on many scattered growths of balloonvine on Oahu; up to 20 per fruit at Pearl City, Ewa, and Waianae. VAGRANT GRASSHOPPER (*Schistocerca vaga*) remains heavy at Waianae, Oahu. Sightings common in weed growths around farming areas. Occasionally flushed from crops during spray or harvesting operations. Damage negligible. RED-SHOULDERED STINK BUG (*Thyanta accerra*) remains light and widespread on grasses from Sand Island to Makaha, Oahu. Several adults on swollen fingergrass in farms at Waianae. (Funasaki).

LIGHT TRAP COLLECTIONS

FLORIDA - Gainesville - 11/15-21, BL - Beet armyworm (*Spodoptera exigua*) 2, black cutworm (*Agrotis ipsilon*) 4, corn earworm (*Heliothis zea*) 2, yellow-striped armyworm (*Prodenia ornithogalli*) 1. Monticello - 11/18-20, BL - Armyworm (*Pseudaletia unipuncta*) 11, black cutworm 32, cabbage looper (*Trichoplusia ni*) 7, corn earworm 11, tobacco hornworm (*Manduca sexta*) 1, tomato hornworm (*M. quinquemaculata*) 1, variegated cutworm (*Peridroma saucia*) 13, yellow-striped armyworm 17. MISSISSIPPI - Stoneville - 11/16-22, BL, 32-72°F., precip. 1.84 - Armyworm 19, beet armyworm 21, black cutworm 86, fall armyworm (*S. frugiperda*) 55, granulate cutworm (*Feltia subterranea*) 13, yellow-striped armyworm 1. TEXAS - Waco - 11/16-22, BL - Armyworm 40, beet armyworm 26, black cutworm 4, fall armyworm 1, granulate cutworm 36, variegated cutworm 11.

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